

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1 and 17 and in accordance with the following:

1. (CURRENTLY AMENDED) A method of manufacturing an organic EL device, comprising:

forming grooves extending over two or more pixel sites in an insulating film on a substrate;

filling said grooves with a solution in which an organic EL element material is dissolved, two or more pixel sites being filled ~~in by a single operation~~ capillary phenomenon; and drying said solution.

2. (PREVIOUSLY PRESENTED) A method of manufacturing an organic EL device, comprising:

forming first and second grooves in an insulating film on a substrate while the positions of their one edge portions are shifted from each other;

forming a stopper to prevent a solution from filling the length of said first groove;

immersing said one edge portions of said first and second grooves in a first solution in which a first organic EL material is dissolved, and filling said second groove with said first solution while said stopper prevents said first solution from filling the length of said first groove;

removing said stopper; and

immersing said one edge portion of said first groove in a second solution in the state where said second groove is apart from said second solution in which a second organic EL material is dissolved, and filling said first groove with said second solution.

3. (PREVIOUSLY PRESENTED) A method of manufacturing an organic EL device, comprising:

forming first and second grooves extending over two or more pixel sites in an insulating film on a substrate while the positions of their one edge portions and the other edge portions are

shifted from each other;

immersing said one edge portion of said second groove in a first solution in the state where said first groove is apart from said first solution in which a first organic EL material is dissolved, and filling said second groove with said first solution; and

immersing said other edge portion of said first groove in a second solution in the state where said second groove is apart from said second solution in which a second organic EL material is dissolved, and filling said first groove with said second solution.

4. (PREVIOUSLY PRESENTED) A method of manufacturing an organic EL device, comprising:

forming first, second and third grooves in an insulating film on a substrate while the positions of their one edge portions are shifted from each other;

forming first and second stoppers to prevent a solution from filling the length of said first and second grooves;

preparing a first solution in which an organic material of a first luminescence color is dissolved;

immersing said other edge portions of said first, second and third grooves in said first solution, and filling said third groove with said first solution while said first and second stoppers prevent said first solution from filling the length of said first and second grooves;

removing said second stopper;

preparing a second solution in which an organic material of a second luminescence color is dissolved;

immersing said one edge portions of said first and second grooves in said second solution in the state where said third groove is apart from said second solution, and filling said second solution in said second groove while said first stopper prevents said second solution from filling the length of said second groove;

preparing a third solution in which an organic EL material of a third luminescence color is dissolved; and

immersing said one edge portion of said first groove in said third solution in the state where said second and third grooves are apart from said third solution, and filling said third groove with said third solution.

5. (ORIGINAL) The method of manufacturing the organic EL device according to claim 4, wherein

a plurality of said first, second and third grooves are formed for one pixel.

6. (ORIGINAL) The method of manufacturing the organic EL device according to claim 5, wherein

at least one of said first, second and third grooves is formed in the different number from the number of the other grooves.

7. (ORIGINAL) The method of manufacturing the organic EL device according to claim 4, wherein

at least one of said first, second and third grooves is formed in a different width from the other grooves.

8. (PREVIOUSLY PRESENTED) A method of manufacturing an organic EL device, comprising:

forming first, second and third grooves in an insulating film on a substrate while the positions of their one edge portions are shifted from each other and the position of the other edge portion of the third groove is shifted from the edge portions of said first and second grooves;

forming a stopper to prevent a solution from filling the length of said first groove;

preparing a first solution in which an organic material of a first luminescence color is dissolved;

immersing said one edge portions of said first and second grooves in the first solution in the state where said third groove is apart from said first solution, and filling said second groove with said first solution while said stopper prevents said first solution from filling the length of said first groove;

removing said stopper;

preparing a second solution in which an organic material of a second luminescence color is dissolved;

immersing said one edge portion of said first groove in said second solution in the state where said second and third grooves are apart from said second solution, and filling said first groove with said second solution;

preparing a third solution in which an organic material of a third luminescence color is dissolved; and

immersing said other edge portion of said third groove in said third solution in the state

where said first and second grooves are apart from said third solution, and filling said third groove said third solution.

9. (ORIGINAL) The method of manufacturing the organic EL device according to claim 8, wherein  
a plurality of said first, second and third grooves are formed for one pixel.

10. (ORIGINAL) The method of manufacturing the organic EL device according to claim 9, wherein  
at least one of said first, second and third grooves is formed in the different number from the number of the other grooves.

11. (ORIGINAL) The method of manufacturing the organic EL device according to claim 8, wherein  
at least one of said first, second and third grooves is formed in a different width from the other grooves.

12. (PREVIOUSLY PRESENTED) An organic EL device, comprising:  
a substrate;  
a first insulating film formed on said substrate;  
a first electrode formed on said insulating film;  
a second insulating film, which is formed on said insulating film and in which grooves are extended over two or more pixel sites and are provided on a position corresponding to said first electrode;  
an organic EL layer that is formed in said grooves and whose one surface is electrically connected to said first electrode; and  
a second electrode electrically connected to the other surface of said organic EL layer  
wherein plural sets of said grooves are provided in one pixel region and the luminescence colors of the organic EL layers formed in each set of grooves are different from each other.

13. (CANCELLED)

14. (PREVIOUSLY PRESENTED) The organic EL device according to claim 12,

wherein

the number of grooves of at least one set of each set is larger than the number of grooves of the other sets.

15. (PREVIOUSLY PRESENTED) The organic EL device according to claim 12, wherein

the width of at least one set of each set is wider than the width of the grooves of the other sets.

16. (ORIGINAL) The organic EL device according to claim 12, wherein  
a buffer layer is provided at least between said first electrode and said organic EL layer  
or between said organic EL layer and said second electrode.

17. (CURRENTLY AMENDED) A method of manufacturing an organic EL device,  
comprising:

forming grooves extending over two or more pixel sites in an insulating film on a  
substrate;

filling said grooves with a solution in which a material that becomes a buffer layer  
between an organic EL layer and an electrode is dissolved, two or more pixel sites being filled in  
by a single operation capillary phenomenon; and

drying said solution.

18. (PREVIOUSLY PRESENTED) A method of manufacturing an organic EL device,  
comprising:

forming grooves extending over two or more pixel sites in an insulating film on a  
substrate;

filling said grooves by capillary phenomenon with a solution in which a material that  
becomes an electrode is dissolved; and

drying said solution.

19. (PREVIOUSLY PRESENTED) The method of claim 2, wherein  
the first and second grooves extend over two or more pixel sites.

20. (PREVIOUSLY PRESENTED) The method of manufacturing the organic EL device

according to claim 4, wherein

the first, second and third grooves extend over two or more pixel sites.

21. (PREVIOUSLY PRESENTED) The method of manufacturing the organic EL device according to claim 8, wherein

the first, second and third grooves extend over two or more pixel sites.

22. (PREVIOUSLY PRESENTED) An organic EL device, comprising:

a substrate;

a first insulating film formed on said substrate;

a first electrode formed on said insulating film;

a second insulating film, which is formed on said insulating film and in which grooves are provided on a position corresponding to said first electrode;

an organic EL layer that is formed in said grooves and whose one surface is electrically connected to said first electrode; and

a second electrode electrically connected to the other surface of said organic EL layer, wherein:

plural sets of said grooves are provided in one pixel region; and

the luminescence colors of the organic EL layers formed in each set of grooves are different from each other.

23. (PREVIOUSLY PRESENTED) The organic EL device according to claim 22, wherein

the number of grooves of at least one set of each set is larger than the number of grooves of the other sets.

24. (PREVIOUSLY PRESENTED) The organic EL device according to claim 22, wherein

the width of at least one set of each set is wider than the width of the grooves of the other sets.